Machine Specification

ITEM \ MODEL		UM-350	UM-500
Spindle speed	rpm	12000 (15000)	
Spindle nose taper	ASA	BT40	
Spindle bearing diameter	mm	70	
Spindle drive system		Direct	
X-axis travel	mm	700	1000
Y-axis travel	mm	550	650
Z-axis travel	mm	550	550
A-axis travel (tilting)	degree	-120/+30	-120/+30
C-axis travel	degree	360	360
Max. speed of rotary axis (C-axis)	rpm	40	16.6
Max. speed of tilting axis (A-axis)	rpm	33.3	11.1
Max. load on table at 0 degree	kg	200	300
Max. load on table at 90 degree	kg	200	250
Spindle nose to table	mm	40~540	50~600
Table dimension	mm	Ø350	Ø500
Max. workpiece size	mm	Ø350x280	Ø500x300
T-Slot size	mm	12	14
Rapid feed rate (X/Y/Z)	m/min	42/42/30	30/30/30
Cutting feed rate	m/min	12	12
Ball screw diameter	mm	45	45
Guideway bearing type		Roller	
Tool magazine capacity		24 (32 / 40)	
Max. tool weight	kg	7	
Max. tool diameter	mm	75	
Max. tool diameter without adjacent tools	mm	150	
Method of tool exchange		Arm type	Arm type
Max. tool length	mm	300	300
Controller type		FANUC 0i-M	
High speed high precision		AICC	AICC
Spindle motor power (Cont./30 min)	kW	7.5/11	
X/Y/Z feed motor	kW	3/3/4	4/4/7
Coolant pump motor (50 Hz/60 Hz)	kW	0.53+0.85/0.75+1.27	
Air supply pressure	kg/cm2	5.5	5.5
Weight	kg	7500	9000
Dimension (L×W×H)	m	2.7×2.2×3.2	3.0×2.2×3.2

Specifications are subject to change without prior notice.

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Vertical Machining Center

5-axis
Series

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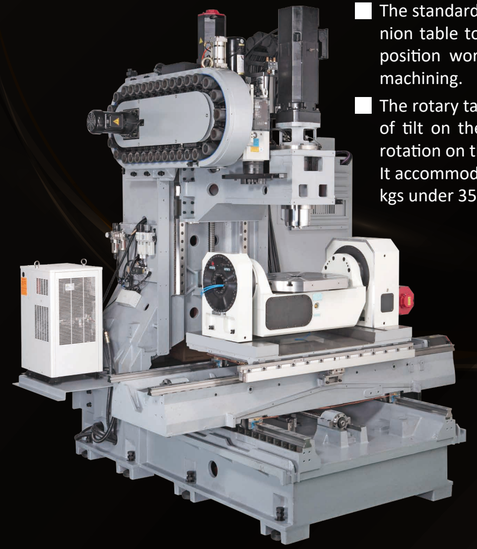
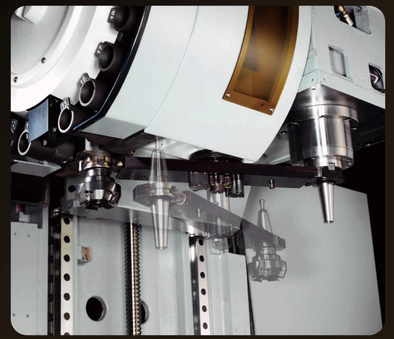
High-Rigidity Frame Structure



- High toughness Meehanite cast structure makes stable form and keeps long-term accuracy.
- The standard table was replaced with a dual-axis trunnion table to provide 5-axis simultaneous motion, or position workpiece to almost any angle for 5-sided machining.
- The rotary table provides -120 degrees to +30 degrees of tilt on the A axis and 360 degrees of continuous rotation on the C axis.
  It accommodates parts and fixture weighing up to 200 kgs under 350 mm of table diameter.

High-Precision Tool Changing System

- Tool magazine has a capacity of 24 tools, fitted with quick and accurate automatic tool changing mechanism. Tool change requires only two to three seconds, which saves cutting time and augments work efficiency.
- PLC program design can manage a tool change for large diameter cutting tool inside the tool magazine.



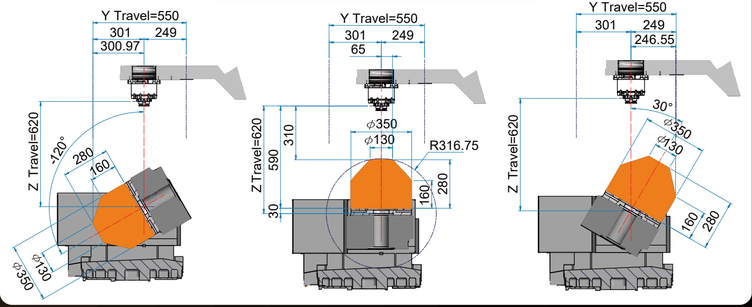
Optional Accessories

- Perform in-cycle part measurement with automatic offset correction to reduce machine downtime.

- It enables the user to set tool length and diameter of rotating tools, and to carry out broken tool detection.

Working Range

UM-350



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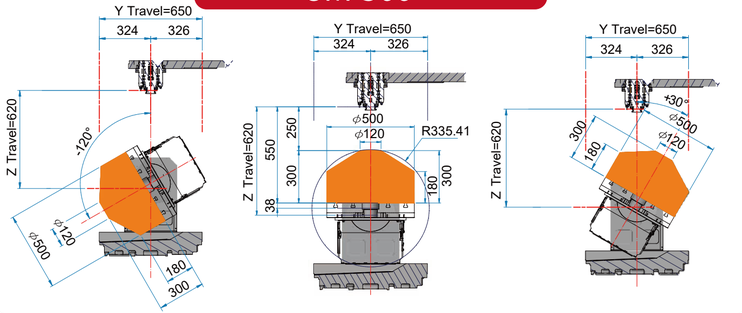
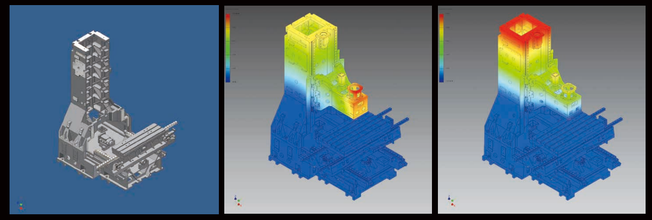


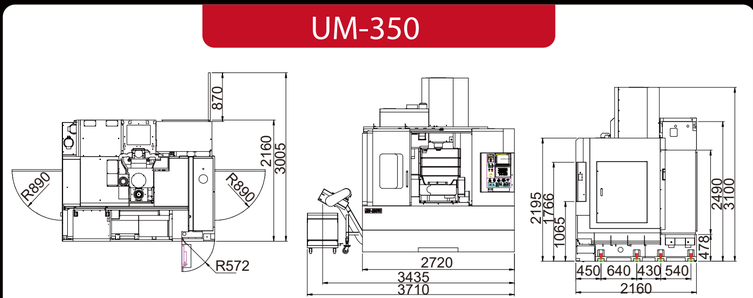
Advanced Design FEA Analysis

- Advanced finite elemant analysis(FEA) simulates cutting loads to determine optimized wall thickness and rib distributions on major casting. Guideway span is also maximized to obtain minimized bending deflection.



Machine Dimensions

UM-350



UM-500